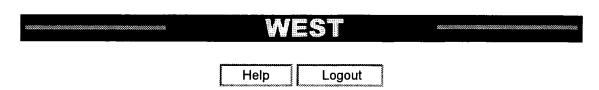
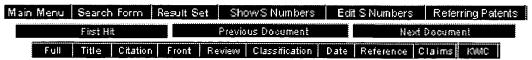


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USPT	16 and 14	57	<u>L7</u>
USPT	maleimide.ab.	618	<u>L6</u>
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USPT	corrosion or rust	125624	<u>L4</u>
USPT	11 and 12	9	<u>L3</u>
USPT	(bond or primer).ab.	25178	<u>L2</u>
USPT	(polybismaleimide or bismaleimide).ab.	253	<u>L1</u>





Entry 50 of 57

File: USPT

Oct 3, 1978

US-PAT-NO: 4118377

DOCUMENT-IDENTIFIER: US 4118377 A

TITLE: Polymerizing bis-maleimides

DATE-ISSUED: October 3, 1978

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

D'Alelio; Gaetano F.

South Bend

IN

ZIP CODE

N/A

N/A

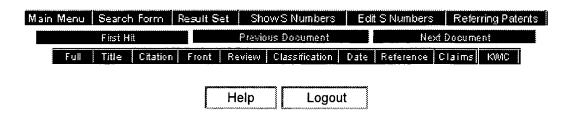
US-CL-CURRENT: 526/236; 526/234, 526/256, 526/258, 526/262, 526/270,

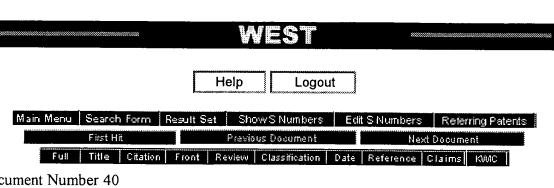
526/89

ABSTRACT:

Processes for increasing the molecular weight of bis-maleimides are provided. The bis-maleimides are reacted with certain cyclic dienes to form reversible adducts. These adducts, upon elimination of the cyclic diene, yield an extension of the bis-maleimides to higher molecular weight polymers, ultimately to thermally stable, infusible polymers. The process can be interrupted to yield tractable polymers which are also convertible to cross-linked, infusible products. Modifications of the process include preparing the adducts in the presence of aprotic solvents as well as Bronsted acid salt catalysts, and the isolation of intermediate solid products.

15 Claims, 0 Drawing figures
Exemplary Claim Number: 1





Entry 40 of 57

File: USPT

Jan 18, 1983

US-PAT-NO: 4369304

DOCUMENT-IDENTIFIER: US 4369304 A

TITLE: Curable resin composition of (1) polyfunctional cyanate ester, (2) acrylic or methacrylic ester and (3) maleimide

DATE-ISSUED: January 18, 1983

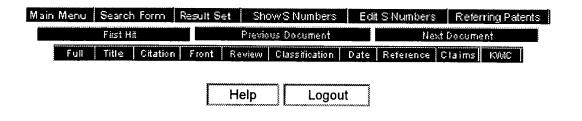
INVENTOR - INFORMATION:

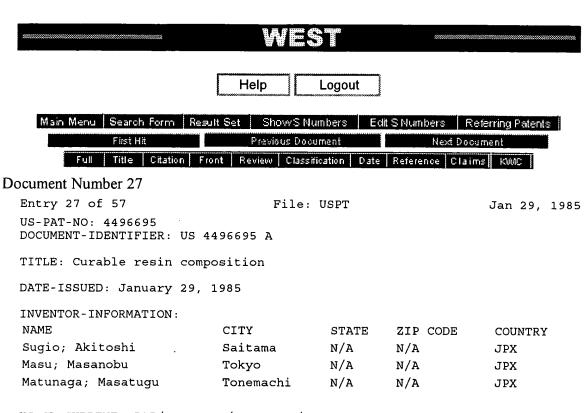
NAME CITY STATE ZIP CODE COUNTRY Gaku; Morio Showamachi N/A N/A JPX Ikeguchi; Nobuyuki Tokyo N/A N/A JPX

US-CL-CURRENT: $\underline{528}/\underline{322}$; $\underline{428}/\underline{473.5}$, $\underline{525}/\underline{185}$, $\underline{525}/\underline{205}$, $\underline{525}/\underline{230}$, $\underline{525}/\underline{422}$, $\underline{528}/\underline{117}, \ \underline{528}/\underline{119}, \ \underline{528}/\underline{170}, \ \underline{528}/\underline{172}, \ \underline{528}/\underline{211}, \ \underline{528}/\underline{248}, \ \underline{528}/\underline{253}, \ \underline{528}/\underline{86}$

ABSTRACT:

A curable resin composition comprising a mixture and/or a preliminary reaction product of (a) polyfunctional cyanate ester, prepolymer of the cyanate ester, or coprepolymer of the cyanate ester and an amine, (b) acrylic esters, methacrylic esters, prepolymers of acrylic esters, prepolymers methacrylic esters, coprepolymers of acrylic esters and methacrylic esters and mixtures thereof, and (c) a polyfunctional maleimide, prepolymer of the maleimide or coprepolymer of the maleimide and an amine are disclosed. Cured resin having excellent impact-resistance, adhesive power, heat-resistance and chemical-resistance can be prepared from the compositions. 3 Claims, 0 Drawing figures Exemplary Claim Number: 1





US-CL-CURRENT: 525/391; 525/395, 525/396

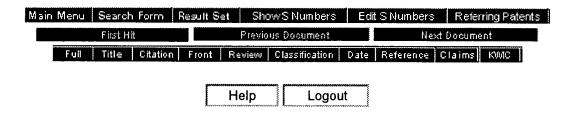
ABSTRACT:

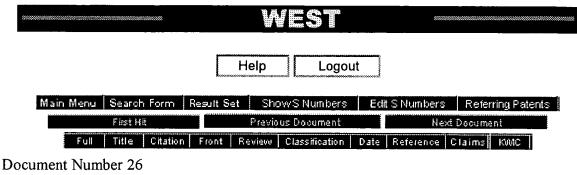
A curable resin composition comprising:

- (a) a polyphenylene ether resin,
- (b) a maleimide component and/or a cyanate ester component, and
- (c) an epoxy compound

is disclosed. The cured resin composition can give a cured resin having resistance to heat, solvent and moisture, adhering property and electrical properties.

11 Claims, 0 Drawing figures Exemplary Claim Number: 1





Entry 26 of 57

File: USPT

Feb 12, 1985

US-PAT-NO: 4499245

DOCUMENT-IDENTIFIER: US 4499245 A

TITLE: Curable resin composition

DATE-ISSUED: February 12, 1985

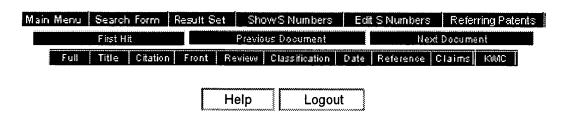
INVENTOR-INFORMATION:

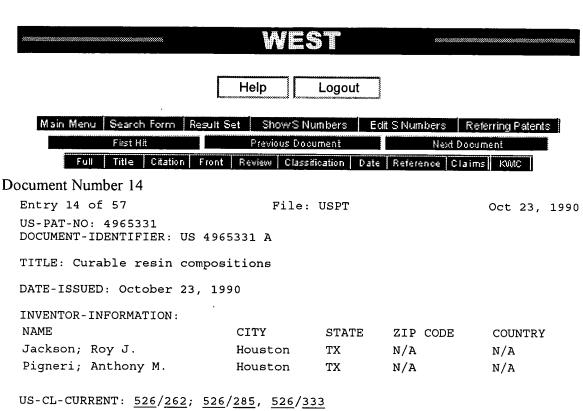
NAME CITY STATE ZIP CODE COUNTRY Ikeguchi; Nobuyuki Tokyo N/A N/A JPX Kimbara; Hidenori Tokyo N/A N/A JPX

US-CL-CURRENT: 525/417; 525/185, 525/186, 525/419, 525/420, 525/908, 528/170, 528/172, 528/321, 528/322, 528/362, 528/363, 528/364, 528/423

ABSTRACT:

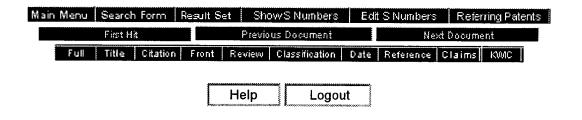
A curable resin composition comprising a mixture and/or a preliminary reaction product of (a) at least one cyanate compound selected from the group consisting of polyfunctional cyanate esters, prepolymers of the cyanate esters, coprepolymers of the cyanate esters and an amine and mixtures thereof, (b) a polyhydantoin resin and optionally (c) at least one maleimide compound selected from the group consisting of polyfunctional maleimides, prepolymer of the maleimides, coprepolymers of the maleimides and an amine and mixtures thereof is disclosed. 3 Claims, 0 Drawing figures Exemplary Claim Number: 1

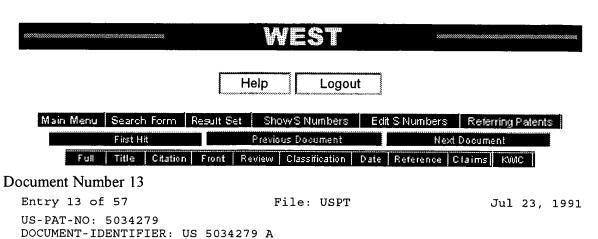




ABSTRACT:

New curable resin compositions comprise a (bis- or poly) -maleimide and a propargyl aromatic ether. 7 Claims, 0 Drawing figures Exemplary Claim Number: 1





TITLE: Water-compatible coating composition

DATE-ISSUED: July 23, 1991

INVENTOR-INFORMATION:

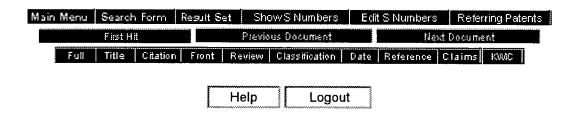
NAME CITY STATE ZIP CODE COUNTRY Wilson, Jr.; Thomas H. St. Paul MN N/A N/A Pocius; Alphonsus V. St. Paul MN N/A N/A

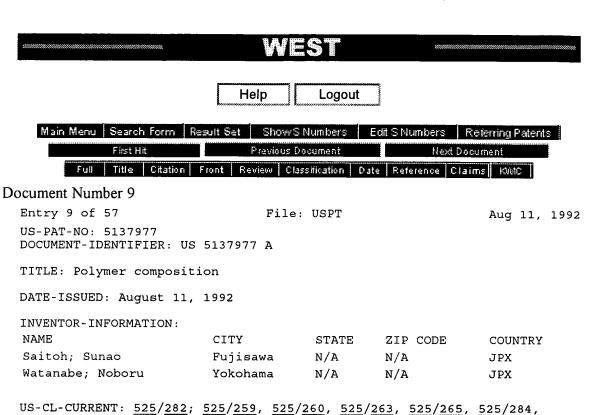
US-CL-CURRENT: 428/457; 204/501, 523/414, 523/514, 525/523

ABSTRACT:

Water-compatible compositions containing resins that contain nitrogen but are substantially free of mercaptan groups, primary amino groups, and secondary amino groups. The compositions are heat-cured at low temperatures using bis-maleimides or sparingly-soluble corrosion-inhibiting chromate pigments. The compositions preferably are used for cathodic electrophoretically-depositable coating applications. 14 Claims, 0 Drawing figures

Exemplary Claim Number: 1



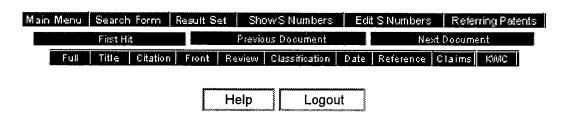


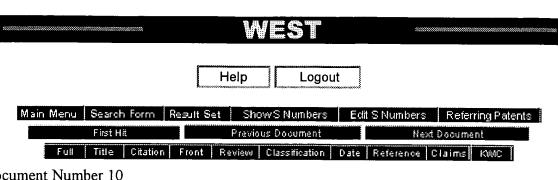
ABSTRACT:

525/293

A polymer composition comprising a polymer or a highly saturated polymer, an organic peroxide and a <u>maleimide</u> derivative, said polymer being produced by radical polymerization using a sulfur-free compound as an emulsifier and a terpene type compound as a molecular weight modifier and said highly saturated polymer being obtained by hydrogenating said polymer.

4 Claims, 2 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 1





Entry 10 of 13

File: USPT

Oct 22, 1985

US-PAT-NO: 4548986

DOCUMENT-IDENTIFIER: US 4548986 A

TITLE: Undercoating composition

DATE-ISSUED: October 22, 1985

INVENTOR-INFORMATION:

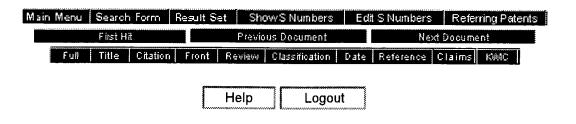
NAME CITY STATE ZIP CODE COUNTRY Suzuki; Takeshi Nagaokakyo N/A N/A JPX Suzue; Seisuke Ibaraki N/A N/A JPX

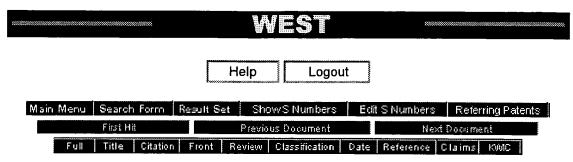
US-CL-CURRENT: <u>525/66</u>; <u>525/179</u>, <u>525/180</u>, <u>525/72</u>

ABSTRACT:

An undercoating composition for a fluorocarbon polymer coating comprising:

- (a) a modified tetrafluoroethylene polymer in the form of particles of double-layer structure having a core and a shell, the core comprising a tetrafluoroethylene homopolymer or a copolymer of tetrafluoroethylene with a fluorine-containing .alpha.-olefin, the shell comprising a copolymer of tetrafluoroethylene and said fluorine-containing .alpha.-olefin copolymerized therewith in a larger amount than in the core,
- (b) a copolymer of tetrafluoroethylene and said fluorine-containing .alpha.-olefin, and
- (c) an auxiliary adhesive agent selected from the group consisting of polyimide, polybismaleimide, polyamideimide and aromatic polyamide. 5 Claims, 0 Drawing figures Exemplary Claim Number: 1





Entry 7 of 13

File: USPT

Jan 28, 1992

US-PAT-NO: 5084304

DOCUMENT-IDENTIFIER: US 5084304 A

TITLE: Process for coating metal strip by the coil coating process for the production of components exposed to high temperatures

DATE-ISSUED: January 28, 1992

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Lienert; Klaus-Wilhelm Hamburg N/A N/A DEX Schmitz; Arno Nottuln N/A N/A DEX

US-CL-CURRENT: 427/388.2; 427/409, 524/538

ABSTRACT:

The invention relates to a process for coating metal strip by the coil coating process using coating materials consisting of high temperature resistant systems (polyesterimides, polyamidocarboxylic acids, polyamidimides, polyhydantoins and polybismaleimides), pigments and/or fillers, suitable auxiliary substances and additives as well as solvents or solvent mixtures. The coating material is used in a one-coat or two-coat application, only polyesterimides and polyhydantoins being used for the primers as high temperatures resistant systems, while any of the high temperature resistant systems listed are used in the topcoat.

The metal strip coated in this manner possesses good formability, good hardness, outstanding anticorrosion characteristics, outstanding resistance to chemicals, solvents, water, oil, shock and prolonged high temperatures, outstanding adhesion and resistance to stone impact, and is particularly suitable for the production of exhausts, silencers, exhaust air ducts, furnace and radiator claddings, grill utensils and other components exposed to high temperatures.

23 Claims, 0 Drawing figures

Exemplary Claim Number: 1

